U.S. Department of Justice
Drug Enforcement Administration

Special Testing and Research Laboratory
Dulles, VA

Chemical Analysis Report

Belize Country Office	**Case Number:** TJ-18-0007
	LIMS Number: 2020-SFL1-03693

Observations, Results, and Conclusions:

Exhibit	Substance(s) Identified	Net Weight	Substance Purity	Amount Pure Substance
4a-R	Cocaine Hydrochloride	9823 g ± 2 g	----	----

Remarks:

The net weight was determined by direct weighing of all unit(s). The net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

Supplemental report to reflect re-analysis. Refer to original laboratory report dated 03/08/2021.

Exhibit Details:

Date Accepted by Laboratory: 12/15/2020	Gross Weight: 13.41 kg	Date Received by Examiner: 04/05/2023

Exhibit	No. Units	Pkg. (Inner)	Form	Reserve Weight
4a-R	10	Plastic Bag	Powder	9820 g

Remarks:

Gross Weight includes the weight of all packaging materials and the evidence envelope.

Exhibit Analysis:

Sampling:

Cocaine Hydrochloride confirmed in 9 units tested of 10 units received indicating, to at least a 95% level of confidence, that at least 90% of the units in the population contain the substance. Salt form determined from testing 9 units.

Exhibit:	**Summary of Test(s):**
4a-R	Gas Chromatography/Mass Spectrometry, Infrared Spectroscopy

Exhibit:	**Purity Test(s):**
	Not applicable

The terminology used in the preparation of this report is consistent with the current Department of Justice Uniform Language for Testimony and Reports for General Forensic Chemistry and Seized Drug Examinations.

Analyzed By: Alexander Walker, Senior Forensic Chemist   **Date:** April 07, 2023

Approved By: Walter R. Rodriguez, Supervisory Chemist   **Date:** April 07, 2023

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Alexander Walker   Senior Forensic Chemist
Department of Justice   Special Testing and Research Lab
Drug Enforcement Administration   Dulles, VA.
Office of Forensic Science

AREA OF EXPERTISE

Forensic Discipline

    Forensic Chemistry

Expert Testimony

    Provided testimony approximately 20 times in Superior Court in Washington, DC for the analysis of illicit drugs

    Provided testimony once in Federal Court in Washington DC. for the analysis of marijuana

PROFESSIONAL EXPERIENCE

DRUG ENFORCEMENT ADMINISTRATION

Senior Forensic Chemist, Special Testing and Research Laboratory, Dulles, Va., 2009 – Present

- Analyzed drug evidence, approximately 2500 exhibits analyzed

- Assisted at a clandestine drug manufacturing laboratory

- Helped conducted research for new methods of drug analysis

- Developed intelligence data

- Provided training to federal, state and local law enforcement official

- Provided scientific and technical support to DEA Special Agents, Intelligence Analyst,

   Diversion Investigators and other law enforcement officers

Training

- DEA, DEA Drug Seminar, (Quantico, VA), 2010

- DEA, DEA Annual Clandestine Lab, (Sterling, VA) 2010-present

- DEA, Effective Writing, (Quantico, VA), 2011

- DEA, Laboratory Hazard Waste Training, (Sterling, VA), 2011

- ACS, Effective Technical Writing, (Denver, CO), Aug, 2011

- ACS, Structure Determination of Small Molecule Organic Compounds, (Denver, CO), 2011

- ACS, Using one and two-dimensional Nuclear Magnetic Resonance Spectroscopy, (Denver, CO), 2011

- DEA, Heroin Signature Program Continuing Education, (Sterling, VA), 2012

- DEA, Heroin Signature Program Continuing Education, (Sterling, VA), 2013

- DEA Instructor Development Course 2016

- Los Angeles FD, High Hazard Laboratory Level A Training, (Santa Clara, CA), 2018
- DEA, Monthly Educational Series- Poppy Tea, (Sterling, VA), 2018
- DEA, Monthly Educational Series- Selection and Operation of Raman Units, (Sterling, VA), 2018
- DEA, NMR Technical Chemist training, (Sterling, VA), 2018
- DEA, New Analytical Scheme for the Analysis of Cannabis, (Sterling, VA), 2019
- KADIMA Leadership Training Seminar (Sterling, VA), 2019
- DEA, Conversion process for camouflaging cocaine, (Cartagena, Colombia), 2020
- DEA Leadership Ladder completed (Sterling, VA), 2020
- DEA, Lean Six Sigma Yellow Belt courses (Sterling, VA), 2020
- DEA, DEA Annual Clandestine Laboratory Level A recertification, (Sterling, VA) 2020 - Present
- Old Dominion University class "Ethics in Public Administration" (Norfolk, VA) 2021
- Old Dominion University class "Leadership" (Norfolk, VA) 2022
- Old Dominion University class "Cultural Competency" (Norfolk, VA) 2022

SAVANNAH-CHATHAM METROPOLITAN POLICE DEPARTMENT

Corporal Police Officer, Southside, Savannah, GA., 1997- 2009

- Conducted preliminary investigation of events, related to felonious acts and misdemeanors
- Prepared reports, citations and summons necessary to enforce ordinances, statutes, and laws including petty, misdemeanor, and felonious offenses
- Appeared in state, municipal, and district courts to offer credible testimony relative to the investigation of criminal and non-criminal offenses
- Trained Police Recruits utilizing the PTO (Police Training Officer) Program
- Coordinated with other law enforcement jurisdictions and agencies to continue investigations of cases, suspects, and/or to gather criminal intelligence data
- Processed crime scenes, including: collecting evidence, interviewing witnesses, obtaining statements, locating persons of interest, coordinating with other officers and assigning duties, communicating with vested agencies and supervisors and preventing contamination of the scene

EDUCATION AND CERTIFICATIONS

Old Dominion University, Norfolk, VA.

- Master of Public Administration, 2022

Armstrong Atlantic State University, Savannah, GA.

- Bachelor of Science Degree in Chemistry, 2008

Certification(s)

- *DEA, DEA Forensic Training Program, (Sterling, VA), 2009*
- DEA, DEA Annual Clandestine Lab, (Quantico, VA), 2010
- DEA, DEA Basic Forensic Science Seminar, (Quantico, VA), 2010
- Agilent, Ultra-High Performance Liquid Chromatography Training, (Sterling, VA), 2012
- Waters, Empower 3 PDA Theory and Spectral Libraries, (Sterling, VA), 2014
- Waters, Empower 3 PDA Advanced Topics: Custom Fields and Reports, (Sterling, VA), 2014
- Waters, Basic ACQUITY UPLC Maintenance, (Sterling, VA), 2014
- DEA, Instructor Development Course, (Quantico, VA), 2016
- Agilent, HPLC w/ OpenLAB 2.2 Essential and Advanced Operations, (Lexington, MA), 2018
- Agilent, HPLC ChemStation C Operation, (Lexington, MA), 2018
- US Department of Justice, Just/NCIC/NLETS Certification Course, (Sterling, VA), 2018
- US Department of Justice, Just/NCIC/NLETS Certification Course, (Sterling, VA), 2021
- Master's Certificate in Public Procurement and Contract Management, (Norfolk) 2022

PROFESSIONAL AFFILIATIONS

- Loudoun County Heritage Commission – Commissioner, 2020-present
- Salute Veterans National Honor Society- member, 2021- present

PRESENTATIONS AND LECTURES

- Speaker, "Heroin Trends," DEA Intelligence Analyst, (Dulles, VA) 2012
- Speaker, "HSP familiarization," Office of Naval Intelligence, (Dulles, VA) 2013
- Speaker, "HSP familiarization," State and Local chemists, (Dulles, VA)   2013
- Speaker, "HSP familiarization" Special Operations Division and Crime and Narcotics Center, (Dulles, VA) 2013
- Speaker, "HSP familiarization," State and Local forensic chemists, (Dulles, VA) 2014
- Speaker, "HSP familiarization," Defense Intelligence Agency (Dulles, VA) 2015
- Speaker, "CSP familiarization," State and Local forensic chemist, (Dulles, VA) 2020
- Instructor, "DEA Laboratory Safety Course and Heroin Processing," Afghanistan National Interdiction Unit (Afghanistan) 2013
- Instructor "International Course of Tactical Analyst in the Fight Against Illicit Drug Trafficking" National Police (Argentina) 2017
- Instructor "High Hazard Laboratory Level A Training," (Castaic, CA) 2019

DISTINCTIONS

- Performance Award, DEA, (Sterling, VA) 2016
- Performance Award, DEA, (Sterling, VA) 2018
- Performance Award, DEA, (Sterling, VA) 2021
- Class Counselor, DEA, (Quantico, VA) 2021

U.S. Department of Justice
Drug Enforcement Administration
Special Testing and Research Laboratory
22624 Dulles Summit Court
Sterling, VA 20166

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TO: Ernest Gonzalez
             Assistant U. S. Attorney

FROM: Alexander Walker
             Senior Forensic Chemist
             DEA Special Testing and Research Laboratory

SUBJECT: RULE 16(a)(1)(G) SUMMARY OF TESTIMONY IN
UNITED STATES v. Mercer-Erwin, Debra, et al.
DEA LIMS Case Number(s): 2020-SFL1-03693

Date: April 7, 2023

The following summary of testimony is provided as required by Federal Rule of Criminal Procedure 16(a)(1)(G) and is a complete statement of my opinions, which are exclusive to and address only the exhibit(s) identified in this summary:

1. My name is: Alexander Walker

2. I am employed by the U.S. Department of Justice, Drug Enforcement Administration (DEA), in the capacity of Senior Forensic Chemist, and was so employed when I conducted the examinations and analyses described below. My qualifications to conduct the examinations and analyses, and to express an opinion as to the identity of the material contained in the exhibit(s) described below, are based on my knowledge, skill, experience, training, and education. See my attached Curriculum Vitae for additional information regarding my qualifications, including previous testimony offered in the last four years and any publications authored in the last ten years.

3. The opinions described below are based on the following chemical, physical, and instrumental analyses, the results generated by those analyses, and my interpretation of those results set forth in the previously provided Laboratory Report and analyst notes.

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UNITED STATES v. Mercer-Erwin, Debra, et al.
DEA LIMS CASE NUMBER(S): 2020-SFL1-03693

The manner and process by which I performed the analyses were, to the best of my knowledge, in accordance with the publicly available Analysis of Drugs Manual (ADM) and Laboratory Operations Manual (LOM), in effect at the time of analysis. These are generally available at:

https://www.dea.gov/resources/documents?f%5B0%5D=publication_type%3A2596, or were otherwise disclosed upon request.

4. I analyzed the material contained in the exhibits which were submitted for analysis in the above referenced case number(s). My conclusions are included as part of previously provided forensic laboratory reports and analyst notes.

5. The material referred to herein as exhibit #4a-R, as represented in the forensic laboratory reports and accompanying case file, has been identified as follows:

   a. Substance(s) identified: Cocaine Hydrochloride*
   b. Net weight: 9823 g± 2 g **
   c. Purity of : N/A
   d. A statistical sampling approach based on the probability theory of the hypergeometric distribution was used.

The above opinion is based on the following physical, chemical, and instrumental analyses:

   i.   Gas chromatography/Mass Spectrometry
   ii. Infrared Spectroscopy

The analytical methods used in the above analyses are validated and verified according to our quality assurance policy to ensure the methods are reliable and fit-for-purpose and the techniques utilized are widely accepted and employed in the scientific and forensic community. Summaries of instrumental methods are available at:

https://www.dea.gov/resources/documents?f%5B0%5D=publication_type%3A2596

   *Cocaine Hydrochloride confirmed in 9 units tested of 10 units received indicating, to at least a 95% level of confidence, that at least 90% of the units in the population contain the substance. Salt form determined from testing 9 units.
   **The net weight was determined by direct weighing of all unit(s). The net weight uncertainty value represents an expanded uncertainty estimate at the 95% level of confidence.

6. This report, its attachments, and the referenced documents are not an exhaustive or complete recitation of testimony that I may offer. In addition, I may offer opinions in response to questions posed during trial.

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Pursuant to Fed. R. Crim. P. 16(a)(1)(G)(v), I approve the foregoing disclosure.

_____   Date: 4/7/2023
Alexander Walker, DEA Senior Forensic Chemist

APPROVED: _____

Lance Kvetko, Laboratory Director   Date: 4/7/2023

Attachment